

## Recombinant Human Ctla4 Protein

Cat. No. Ctla4-649H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human Ctla4 protein without tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	223
<b>Description</b>	<p>This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other autoimmune diseases.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	14.3 kDa
<b>AA Sequence</b>	<p>MACLGFRHKAQLNLRTRWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFV            CEYASPGKATEVRVTVLRQADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVN            LTIQGLRAMDTGLYICKVELMYPPIYLGIGNGTQIYVIDPEPCPDSDFLWILAAVSS</p>

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GLFFYSFLLTAVSLSKMLKKRSPLTTGVYVKMPPTPEPECEKQFQPYFIPIN

**Purity**

> 98%

**Applications**

WB; ELISA; FACS; FC

**Stability**

This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage**

At -20 centigrade.

**Concentration**

1 mg/mL

**Storage Buffer**

PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution**

Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name**

CTLA4 cytotoxic T-lymphocyte-associated protein 4 [ Homo sapiens (human) ]

**Official Symbol**

Ctla4

**Synonyms**

CTLA4; cytotoxic T-lymphocyte-associated protein 4; celiac disease 3 , CELIAC3; cytotoxic T-lymphocyte protein 4; CD; CD28; CD152; GSE; ICOS; CD152 isoform; celiac disease 3; cytotoxic T-lymphocyte antigen 4; cytotoxic T-lymphocyte-associated antigen 4; cytotoxic T-lymphocyte-associated serine esterase-4; cytotoxic

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T lymphocyte associated antigen 4 short spliced form; ligand and transmembrane spliced cytotoxic T lymphocyte associated antigen 4; GRD4; CTLA-4; IDDM12; CELIAC3;

**Gene ID** 1493

**mRNA Refseq** NM\_001037631

**Protein Refseq** NP\_001032720

**MIM** 123890

**UniProt ID** P16410

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